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west virginia department of environmental protection

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Office of Oil and Gas  
601 57<sup>th</sup> Street, S.E.  
Charleston, WV 25304  
(304) 926-0450  
fax: (304) 926-0452

Harold D. Ward, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

Wednesday, April 2, 2025  
PERMIT MODIFICATION APPROVAL  
Horizontal 6A / New Drill

ANTERO RESOURCES CORPORATION  
1615 WYNKOOP STREET

DENVER, CO 80202

Re: Permit Modification Approval for Rigby Unit 1H  
47-095-02911-00-00

**Lateral Extension/ Leases Added**

ANTERO RESOURCES CORPORATION

The Office of Oil and Gas has reviewed the attached permit modification for the above referenced permit. The attached modification has been approved and well work may begin. Please be reminded that the oil and gas inspector is to be notified twenty-four (24) hours before permitted well work is commenced.

If there are any questions, please feel free to contact me at (304) 926- 0450.



James A. Martin  
Chief

Operator's Well Number: Rigby Unit 1H  
Farm Name: Antero Resources Corporation  
U.S. WELL NUMBER: 47-095-02911-00-00  
Horizontal 6A New Drill  
Date Modification Issued: 04/02/2025

Promoting a healthy environment.

04/04/2025

WW-6B  
(04/15)

API NO. 47-095 - 02911  
OPERATOR WELL NO. Rigby Unit 1H MOD  
Well Pad Name: Mayfield Pad

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS  
WELL WORK PERMIT APPLICATION

1) Well Operator: <u>Antero Resources Corporation</u>	494507062	095 - Tyler	Lincoln	Paden City
	Operator ID	County	District	Quadrangle

2) Operator's Well Number: Rigby Unit 1H MOD Well Pad Name: Mayfield Pad

3) Farm Name/Surface Owner: Antero Resources Corporation Public Road Access: Veterans Hwy

4) Elevation, current ground: 874' Elevation, proposed post-construction: 864'

5) Well Type (a) Gas ☒ Oil ☐ Underground Storage ☐  
Other ☐  
(b) If Gas Shallow ☒ Deep ☐  
Horizontal ☒

6) Existing Pad: Yes or No No

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):  
Marcellus Shale: 6600' TVD, Anticipated Thickness- 55 feet, Associated Pressure- 2800#

8) Proposed Total Vertical Depth: 6600' TVD

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 23700' MD

11) Proposed Horizontal Leg Length: 13520.6'

12) Approximate Fresh Water Strata Depths: 384'

13) Method to Determine Fresh Water Depths: 47-095-00277

14) Approximate Saltwater Depths: 1736'

15) Approximate Coal Seam Depths: N/A

16) Approximate Depth to Possible Void (coal mine, karst, other): None Anticipated

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes ☐ No ☒

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

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Environmental Protection

04/04/2025

*Handwritten signature and date: 3/20/25*

WW-6B  
(04/15)

API NO. 47- 095 - 02911  
OPERATOR WELL NO. Rigby Unit 1H MOD  
Well Pad Name: Mayfield Pad

18)

**CASING AND TUBING PROGRAM**

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100	100	CTS, 96 Cu. Ft.
Fresh Water	13-3/8"	New	J-55	54.5#	434	434	CTS, 452 Cu. Ft.
Coal	9-5/8"	New	J-55	36#	2500	2500	CTS, 1018 Cu. Ft.
Intermediate							
Production	5-1/2"	New	P-110	23#	23700	23700	5044 Cu. Ft
Tubing	2-3/8"	New	N-80	4.7#			
Liners							

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	24"	0.438"	1530	50	Class A/L	~1.18
Fresh Water	13-3/8"	17-1/2"	0.38"	2730	1000	Class A/L	~1.18
Coal	9-5/8"	12-1/4"	0.352"	3520	1500	Class A/L	~1.18
Intermediate							
Production	5-1/2"	8-3/4" & 8-1/2"	0.415"	12,630	2500	Lead-HPOZ & Tail - H	H/POZ-1.44 & H-1.8
Tubing	2-3/8"	4.778"	0.19"	11,200			
Liners							

**PACKERS**

Kind:	N/A		
Sizes:	N/A		
Depths Set:	N/A		

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Environmental Protection

*May 31/2025*

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill, perforate, fracture a new shallow well and complete Marcellus Shale.

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Antero plans to pump Slickwater into the Marcellus Shale formation in order to ready the well for production. The fluid will be comprised of approximately 99 percent water and sand, with less than 1 percent special-purpose additives as shown in the attached "List of Anticipated Additives Used for Fracturing or Stimulating Well."

Anticipated Max Pressure - 9300 lbs  
Anticipated Max Rate - 80 bpm

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 18.77 acres

22) Area to be disturbed for well pad only, less access road (acres): 7.98 acres

23) Describe centralizer placement for each casing string:

Conductor: no centralizers  
Surface Casing: one centralizer 10' above the float shoe, one on the insert float collar and one every 4th joint spaced up the hole to surface.  
Intermediate Casing: one centralizer above float joint, one centralizer 5' above float collar and one every 4th collar to surface.  
Production Casing: one centralizer at shoe joint and one every 3 joints to top of cement in intermediate casing.

24) Describe all cement additives associated with each cement type:

Conductor: no additives, Class A/L cement.  
Surface: Class A/L cement with 2-3% calcium chloride and 1/4 lb of flake  
Intermediate: Class A/L cement with 1/4 lb of flake, 5 gallons of clay treat  
Production: Lead cement- 50/50 Class H/Poz + 1.5% salt + 1% C-45 + 0.5% C-16a + 0.2% C-12 + 0.45% C-20 + 0.05% C-51  
Production: Tail cement- Class H + 45 PPS Calcium Carbonate + 1.0% FL-160 + 0.2% ACGB-47 + 0.05% ACSA-51 + 0.2% ACR-20

25) Proposed borehole conditioning procedures:

Conductor: blowhole clean with air, run casing, 10 bbls fresh water.  
Surface: blowhole clean with air, trip to conductor shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate pipe capacity + 40 bbls fresh water followed by 25 bbls bentonite mud, 10 bbls fresh water spacer.  
Intermediate: blowhole clean with air, trip to surface casing shoe, trip to bottom, blowhole clean with air, trip out, run casing, circulate 40 bbls brine water followed by 10 bbls fresh water and 25 bbls bentonite mud, pump 10 bbls fresh water.  
Production: circulate with 14 lb/gal NaCl mud, trip to middle of lateral, circulate, pump high viscosity sweep, trip to base of curve, pump high viscosity sweep, trip to top of curve, trip to bottom, circulate, pump high viscosity sweep, trip out, run casing, circulate 10 bbls fresh water, pump 48 bbls barite pill, pump 10 bbls fresh water followed by 48 bbls mud flush and 10 bbls water.

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\*Note: Attach additional sheets as needed.

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Page 3 of 3

WV Department of  
Environmental Protection

04/04/2025

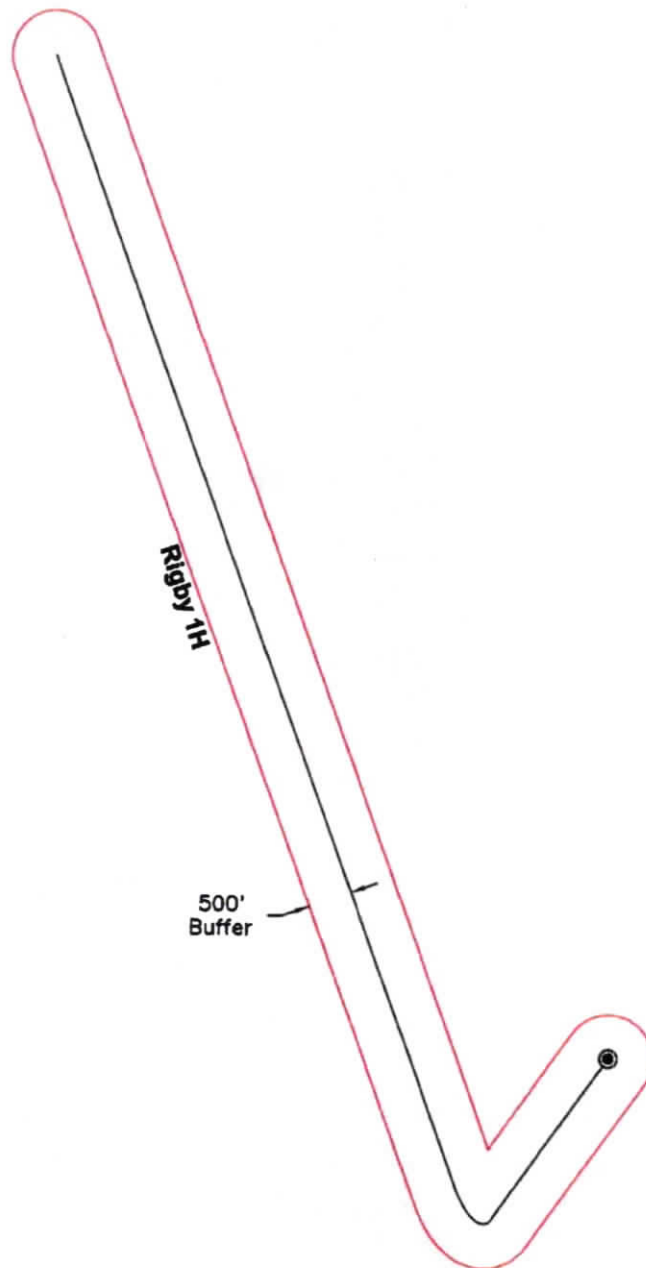
*Mayfield*  
*2025*

# LEGEND

- Proposed gas well
- ⊗ Existing Well, as noted
- ⊗ Digitized Well, as noted



The orientation of this survey is Grid North, and its coordinate base is the West Virginia Coordinate System of 1927, North Zone



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Environmental Protection

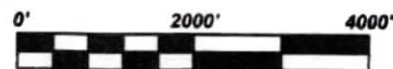


Bridgeport Office  
Phone: (304) 848-5035  
Fax: (304) 848-5037

172 Thompson Drive  
Bridgeport, WV 26330

PARTY CHIEF: C. Lynch	DRAWN BY: C. Robinson
RESEARCH: J. Miller	PREPARED: February 24, 2025
SURVEYED: Dec. 2016	PROJECT NO: 155-54-L-23
FIELD CREW: C.L., K.M.	DRAWING NO: Rigby 1H AOR

Sheet 1 of 1



Scale: 1 inch = 2000 feet

04/04/2025

Antero Resources  
Well No. Rigby 1H  
BHL MOD  
Antero Resources Corporation

ALLEGHENY  
SURVEYS, INC.

Legend

Proposed gas well

Monument, as noted

Existing Well, as noted

Digitized Well, as noted

Creek or Drain

Road

Surface boundary (approx.)

Interior surface tracts (approx.)

Interior surface tracts (approx.)

I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

Bradley D. Miller, P.S. 2167

BRADLEY D. MILLER  
LICENSED  
No. 2167  
STATE OF  
WEST VIRGINIA  
PROFESSIONAL SURVEYOR

SEAL

Proposed Well No. Rigby 1H

2000'

47-095-0406

Water Well

Note: 1 water well were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

Page  
1 of 3

Top Hole  
7.5' Spot

Well Location References

Not To Scale

AZ22A  
344

AZ23B  
408

Stake & Tack

Mayfield Pad

Stake & Tack

	Bearing	Dist.
L1	N 27°26' W	2,064.1'
L2	N 50°47' W	1,502.1'
L3	S 66°57' W	621.2'
L4	S 24°04' E	1,926.0'
L5	S 50°34' W	2,256.3'

BTM Hole  
7.5' Spot

2,175' to Bottom Hole

7,412' to Top Hole

BHL LATITUDE 39 - 37 - 30  
THL LATITUDE 39 - 35 - 00

THL LONGITUDE 80 - 52 - 30  
BHL LONGITUDE 80 - 55 - 00

809' to Top Hole

4,799' to Bottom Hole

Rigby Unit 1H  
Bottom Hole

See Detail "A"

See Detail "B"

See Detail "C"

See Detail "D"

Wetzel County  
Tyler County

Proposed Well No. Rigby 1H

5/8" Rebar

8582 Water Well

Roof bolt on creek bank

Center of

Department of

Office of Oil and Gas

MAR 20 2025

Notes

West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.

Well No. Rigby Unit 1H Top Hole coordinates are  
N: 396,845.51'    Latitude: 39°34'52.01"  
E: 1,605,049.04'    Longitude: 80°54'04.67"

Bottom Hole coordinates are  
N: 408,131.19'    Latitude: 39°36'42.56"  
E: 1,598,719.48'    Longitude: 80°55'27.79"

UTM Zone 17, NAD 1983

Top Hole Coordinates    Bottom Hole Coordinates  
N: 4,381,279.970m    N: 4,384,685.985m  
E: 508,491.450m    E: 506,505.799m

Plat orientation and corner and well references are based upon the grid north meridian.

Well location references are based upon the magnetic meridian.

Notes:

Well No. Rigby Unit 1H  
UTM Zone 17, NAD 1927  
N: 14,373,355.00'  
E: 1,668,227.36'

Point of Entry Coordinates  
N: 14,372,073.39'  
E: 1,666,509.45'

Bottom Hole Coordinates  
N: 14,384,709.63'  
E: 1,661,712.482'

Wellhead Layout (NTS)

Gorby Unit 2H  
(API# 47-095-02910)

Gorby Unit 1H  
(API# 47-095-02909)

Driftwood Unit 2H  
(API# 47-095-02908)

Driftwood Unit 1H  
(API# 47-095-02907)

Proposed Well  
Rigby Unit 1H  
(API# 47-095-02911)

N 69°03' E 15.0'

FILE NO: 155-54-L-23

DRAWING NO: Rigby Unit 1H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:  
Submeter

PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OIL AND GAS DIVISION

DATE: February 25 2025

OPERATOR'S WELL NO. Rigby Unit 1H

API WELL NO

47 - 095 - 02911

STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL  
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW

LOCATION: ELEVATION: Existing 874' Proposed 864' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City

DISTRICT: THL: Lincon BHL: Magnolia COUNTY: THL: Tyler BHL: Weza

SURFACE OWNER: Antero Resources Corporation ACREAGE: 60.96

ROYALTY OWNER: Dennis Swindall & Constance Swindall Trustees for the Swindall Revoable Trust LEASE NO: ACREAGE: 208

PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION

☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,600' TVD 23,700' MD

WELL OPERATOR: Antero Resources Corporation

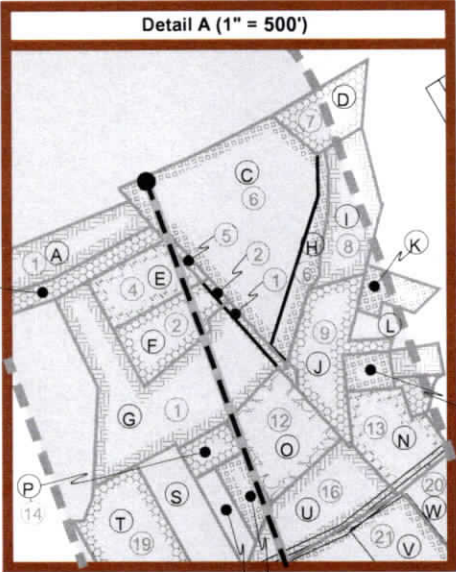
DESIGNATED AGENT: Conrad Baston

ADDRESS: 1615 Wynkoop Street

ADDRESS: 535 White Oaks Blvd.

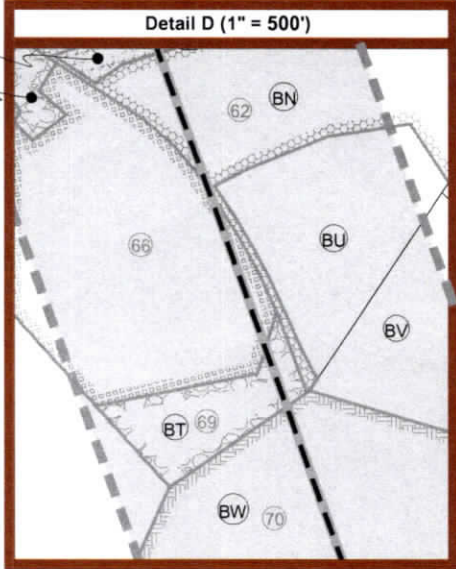
Denver, CO 80202

Bridgeport, WV 26330



Leases	
1	Richard E. Estep, et ux
2	James R. Paden, et ux
3	CSX Transportation, Inc.
4	James R. Paden, et ux
5	James R. Paden, et ux
6	Nathan B. Anderson
7	Kimela A. Mathews
8	Paul Wissmach Glass Company, Inc.
9	Dale E., Sr. & Shelia I. Henthorn
11	Carol Sue Loy
12	Martin E. Moore, et ux
13	Diana Cecil, Life Tenant & Carrie Renee Still, as Remainderman
14	William C. & Sherry L. Reed
16	Christopher A. Jackson, et ux
17	William C. Reed
18	William C. Reed
19	Christopher L. Neff
20	Robin Ann Fox
21	Beth Ann Shreve
22	Linda L. Simpkins
23	Linda L. Simpkins
24	Mark M. & Joan M. Mason
25	Charles & Karen Goddard
26	Susanna L. Pierce
27	Mark M. Mason
28	Carren Sue Morris
29	David A. & Julie A. Vincent, JTWROS
30	Robert L., Jr. & Donna K. Jones, JTWROS
31	Kimberly S. Beverlin
32	Stanley J., Jr. & Patricia A. McIntyre, JTWROS
33	Jordan G. Swanberg, et ux, JTWROS
34	Jordan G. & Angela M. Swanberg, h/w, JTWROS
35	Marvin & Bonnie Williams, JTWROS
36	Richard K. Long, II
37	Markus E. & Ruth E. Derby
39	David L. & Mary F. Hayes, JTWROS
40	David L. & Mary F. Hayes, JTWROS
41	David L. & Mary F. Hayes, JTWROS
42	Janice L. Miller
43	David M. Powers

Leases	
44	Gabrielle P. Cooper
45	Elk Range Royalties II, LP
46	Ella Jane Price
47	James E. Williamson, Jr.
48	George McDonnell
49	Timothy & Jasmine Kanz
50	Cynthia M. Yoho, et al
51	Eliza Lorene Eddy
52	Phillip Ray & Donna Carol Frazier, JTWROS
53	Brandon Lee Corcoran
54	Haylea N. Lohri
55	Town of Paden City, WV
56	Keith J. & Carolyn L. Leek
57	Sherry Lynn Henry
59	Town of Paden City, WV
60	Harmon D. & Ruth A. Haught, JTWROS
61	Richard B. & Nancy J. Stender, h/w, JTWROS
62	Mineral Acquisition Company I, LP
63	Marvin R. Hartsfield
64	Master Mineral Holdings III, LP
65	Maranda S. Quinn
66	Maranda S. Quinn
69	Maranda S. Quinn
70	Ronald F. Billiter
71	Ralph Job Howell Trust, by Beverly Jean Sidwell, Trustee
72	John Ventemiglia
73	Carlos D. Harris
74	John Stephen Lyons & Patricia Ann Stewart
75	Clinton Leasure
78	Lawrence Grayson III & Amelia Ann Walker, h/w
79	Lawrence Grayson Walker III, et ux
80	Lawrence Grayson Walker III, et ux
81	Dena Raye Grimes
82	Ridgetop Capital II, LP
83	Cynthia M. Oldham, widow
84	Dennis & Constance L. Swindall, Trustees for the Swindall Revocable Trust
85	Cynthia M. Oldham
86	Mark C. & Sharon L. Garrison, h/w



FILE NO: 155-54-L-23

DRAWING NO: Rigby Unit 1H Well Plat

SCALE: 1" = 2000'

MINIMUM DEGREE OF ACCURACY:  
Submeter

PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OIL AND GAS DIVISION

DATE: February 25, 2025  
OPERATOR'S WELL NO.: Rigby Unit 1H  
API WELL NO.: 47-095-02911  
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL  
(IF GAS) PRODUCTION: ☐ STORAGE ☐ DEEP ☒ SHALLOW  
Existing 874'

LOCATION: ELEVATION: Proposed 864' WATERSHED: Outlet Middle Island Creek

DISTRICT: THL: Lincon  
BHL: Magnolia

SURFACE OWNER: Antero Resources Corporation

ROYALTY OWNER: Dennis Swindall & Constance Swindall Trustees for the Swindall Revoable Trust LEASE NO: ACREAGE: 208

PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION  
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD

☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,700' MD

WELL OPERATOR: Antero Resources Corporation

ADDRESS: 1615 Wynkoop Street  
Denver, CO 80202

DESIGNATED AGENT: Conrad Baston

ADDRESS: 535 White Oaks Blvd.  
Bridgeport, WV 26330

QUADRANGLE: Paden City  
COUNTY: Tyler  
ACREAGE: 60.96  
04/04/2025



ID	TM-Par	Owner	Bk/Pg	Acres
A	10B-2	Richard E. & Dorothy Estep	491/571	2.83
B	10B-8	James R. Paden	295/146	0.79
C	10B-11	Nathan B. Anderson	433/329	3.83
D	10B-4	Kimela A. Matthews	475/394	0.25
E	10B-8	James R. Paden	295/146	0.79
F	10B-7.2	James R. & Susan L. Paden	476/843	0.85
G	10B-7	Richard E. & Dorothy Estep	491/571	0.64
H	10B-28.1	Ronald L. & Brenda S. Wright	441/180	0.40
I	10B-12	Paul Wissmach Glass Company	333/342	1.05
J	10B-18	Sheila I. & Dale E. Henthorn, Sr.	373/386	1.00
K	10B-28	William E. Jacobs Jr.	469/842	0.33
L	10B-26	William E. Jacobs Jr.	476/581	0.15
M	10B-22	Patricia Ruth Loy, Estate	WB20/494	0.25
N	3A-2	Carrie R. Stills	424/161	0.61
O	10B-7.1	Kevin L. & Mary R. Yeater	500/567	1.23
P	10B-16.1	William C. & Sherry L. Reed	294/187	0.29
Q	10B-16	R. Diane Hayes & William C. Reed	368/92	0.44
R	10B-15	R. Diane Hayes & William C. Reed	WB61/150	0.39
S	3-139	Curtis L. & Eloise B. Hayes	264/351	0.80
T	3-140	Christopher L. Neff	423/651	1.72
U	3A-1	Terrell Lee Paden	329/492	1.40
V	10-41	Beth Ann Shreve	355/212	1.08
W	10-49	Robin A. & Mark S. Fox	323/75	0.86
X	10-40	Linda L. Simpkins	433/650	0.20
Y	4-96	David A. & Linda L. Simpkins	433/650	0.18
Z	4-95	Linda L. Simpkins	362/373	0.09
AA	4-94	Mark M. & Joan M. Mason	369/93	0.27
AB	4-101	Susanna L. Pierce	456/254	0.15
AC	4-99	Charles & Karen Goodard	MS95/212	0.15
AD	4-201	Mark M. Mason	487/284	0.09
AE	4-202	Carren Sue Morris	343/187	0.20
AF	10A-25	David A. & Julie A. Vincent	330/203	0.28
AG	4-208	David L. & Mary F. Hayes	274/108	0.09
AH	4-203	Jordan G. & Angela M. Swanberg	484/16	0.20
AI	10A-24.1	Jordan G. & Angela M. Swanberg	459/423	0.20
AJ	10A-26.1	Stanley J. McIntyre Jr & Patricia A. McIntyre	332/183	0.17
AK	10A-27.1	Kimberly Sue Beverlin	344/103	0.15
AL	10A-28.1	Robert L. Jones Jr. & Donna K. Jones	302/432	0.59
AM	10A-30	Christopher Gage Potoczny	514/479	0.37
AN	10A-23	Christopher Gage Potoczny	514/479	0.37
AO	10A-22	Marcus E. & Ruth E. Derby	357/238	0.37
AP	10A-21	Christine M. Mace	455/108	0.74
AQ	10A-20	David L. & Mary F. Hayes	284/276	0.37
AR	10A-19	David & Mary Hayes	260/441	0.37
AS	4-208	David L. & Mary F. Hayes	274/108	0.09
AT	4-207	Janice L. Barnard	438/375	0.17
AU	4-206	James E. Williamson Jr. & Ruth Williamson	422/410	0.09

ID	TM-Par	Owner	Bk/Pg	Acres
AV	4-184	Gabrielle Cooper	483/14	0.18
AW	4-185	James E. Williams Jr.	303/466	0.10
AX	4-210	Robert G. & Ella J. Price	246/195	0.18
AY	4-191	Cynthia M. Yoho et al	459/52	0.19
AZ	4-211	TJK Properties Inc	433/457	0.11
BA	4-212	William & April Daugherty	428/557	0.63
BB	5-9	William & April Daugherty	428/557	0.65
BC	4-214	Lorene L. Eddy	303/187	0.32
BD	4-215	Phillip R. & Donna Carol Fraizer	297/297	0.20
BE	4-192	Haylea N. Lemasters	482/596	0.09
BF	4-216	Keith J. & Carolyn L. Leek	371/621	0.46
BG	4-217	Town of Paden City	229/110	0.46
BH	5-29	Brandon Lee Corcoran	488/237	2.78
BI	4-196	Jeffery Dale Simpkin Jr. & Sherry L. Henry	447/897	0.15
BJ	4-197	Jeffery & Tiffanie Hallack	436/296	0.30
BK	10-55	Harmon D. Ruth A. Haught	320/492	0.95
BL	10-57	Town of Paden City	229/110	2.00
BM	10-48.1	Richard B. & Nancy J. Stender	371A/256	5.00
BN	10-65.2	Pamela Sue & Jerry S. Billeter	458/358	3.53
BO	10-65.5	Marvin R. Hartsfield	426/737	0.80
BP	10-65.2	Pamela Sue & Jerry S. Billeter	458/358	3.53
BQ	10-65.1	Teresa Kim Goots	501/764	2.49
BR	10-65.3	Maranda S. Quinn	483/868	0.56
BS	10-64	Maranda S. Quinn	483/868	15.02
BT	16-1	Maranda S. Quinn	483/868	2.22
BU	10-65.4	John M. Myers	481/815	4.78
BV	11-83	Donald Blatt	288/499	30.97
BW	16-2	Ronald Billiter	288/288	34.82
BX	16-16	Howell Ralph Job Trust	421/33	37.52
BY	16-17	John & Rebecca S. Weekly	358/425	21.13
BZ	16-43.1	Douglas C. & Linda K. Harris	432/750	1.62
CA	2-20	John Stephen & Patricia Ann Lyons	250/243	2.60
CB	16-43	Clinton Leasure	428/155	30.06
CC	16-44	Clinton Leasure	428/155	5.32
CD	16-16.1	Ralph Job Howell	423/367	1.10
CE	16-45	Clinton Leasure	428/155	5.00
CF	xx-xx	Evans Cemetery	xx/xx	xx.xx
CG	16-46	Russell E. & Jacqueline J. Hussey	503/481	131.04
CH	16-46	Russell E. & Jacqueline J. Hussey	503/481	131.04
CI	5-65	Russell E. & Jacqueline J. Hussey	OR247/747	82.25
CJ	5-32	Megan E. Britton	OR135/173	48.99
CK	5-64	Wesley Shriver	490/758	80.38
CL	5-27	Reed J. Davis	215/629	45.00
CM	5-63	James D. Kimble	WB35/174	94.23
CN	5-63.1	Richard Dale Booher, et al	OR94/294	60.96
CO	5-26	Cynthia M. Oldham	OR24/300	35.26
CP	5-25	Sharon L. (Ice) & Mark Carlton Garrison	263/004	25.99

RECEIVED  
Office Of Oil and Gas  
MAR 20 2025  
WV Department of  
Environmental Protection

FILE NO: 155-54-L-23  
DRAWING NO: Rigby Unit 1H Well Plat  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OIL AND GAS DIVISION

DATE: February 25 2025  
OPERATOR'S WELL NO. Rigby Unit 1H  
API WELL NO  
47 - 095 - 02911  
STATE COUNTY PERMIT

WELL TYPE: ☐ OIL ☒ GAS ☐ LIQUID INJECTION ☐ WASTE DISPOSAL  
(IF GAS) PRODUCTION : ☐ STORAGE ☐ DEEP ☒ SHALLOW  
Existing 874'  
LOCATION: ELEVATION: Proposed 864' WATERSHED: Outlet Middle Island Creek QUADRANGLE: Paden City  
DISTRICT: THL: Lincon BHL: Magnolia COUNTY: THL: Tyler BHL: Wea 04/04/2025  
SURFACE OWNER: Antero Resources Corporation ACREAGE: 60.96  
ROYALTY OWNER: Dennis Swindall & Constance Swindall Trustees for the Swindall Revoable Trust LEASE NO: ACREAGE: 208  
PROPOSED WORK: ☐ DRILL ☐ CONVERT ☒ DRILL DEEPER ☒ FRACTURE OR STIMULATE ☐ PLUG OFF OLD FORMATION  
☐ PERFORATE NEW FORMATION ☒ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) BHL MOD  
☐ PLUG AND ABANDON ☐ CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,600' TVD 23,700' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Conrad Baston  
ADDRESS: 1615 Wynkoop Street ADDRESS: 535 White Oaks Blvd.  
Denver, CO 80202 Bridgeport, WV 26330

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE  
Chapter 22, Article 6A, Section 5(a)(5)  
IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

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- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<b><u>84: Dennis &amp; Constance L. Swindall, Trustees for the Swindall Revocable Trust</u></b>			
Dennis & Constance L. Swindall, Trustee for the Swindall Revocable Trust	Back Country Exploration LLC	1/8+	387/501
Back Country Exploration LLC	Triad Hunter, LLC	Conveyance	338/234
Triad Hunter, LLC	Antero Resources Corporation	Assignment	496/776
<b><u>85: Cynthia M. Oldham Lease</u></b>			
Cynthia M. Oldham	Antero Resources Corporation	1/8+	247/133
<b><u>83: Cynthia M. Oldham, widow Lease</u></b>			
Cynthia M. Oldham	Antero Resources Corporation	1/8+	240/137
<b><u>81: Dena Raye Grimes Lease</u></b>			
Dena Raye Grimes	Antero Resources Corporation	1/8+	205/778
<b><u>82: Ridgetop Capital II, LP Lease</u></b>			
Ridgetop Capital II, LP	Antero Resources Corporation	1/8+	175/743
<b><u>81: Dena Raye Grimes Lease</u></b>			
Dena Raye Grimes	Antero Resources Corporation	1/8+	205/778
<b><u>79: Lawrence Grayson Walker III, et ux Lease</u></b>			
Lawrence Grayson Walker III, et ux	Antero Resources Corporation	1/8+	291A/646
<b><u>80: Lawrence Grayson Walker II, et ux Lease</u></b>			
Lawrence Grayson Walker III, et ux	Antero Resources Corporation	1/8+	291A/646
<b><u>78: Lawrence Grayson III &amp; Amelia Ann Walker, h/w</u></b>			
Lawrence Grayson III & Amelia Ann Walker, h/w	Antero Resources Corporation	1/8+	291A/646
<b><u>79: Lawrence Grayson Walker III, et ux Lease</u></b>			
Lawrence Grayson Walker III, et ux	Antero Resources Corporation	1/8+	291A/646
<b><u>78: Lawrence Grayson III &amp; Amelia Ann Walker, h/w</u></b>			
Lawrence Grayson III & Amelia Ann Walker, h/w	Antero Resources Corporation	1/8+	291A/646
<b><u>75: Clinton Leasure Lease</u></b>			
Clinton Leasure	Antero Resources Corporation	1/8+	241/794
<b><u>71: Ralph Job Howell Trust, by Beverly Jean Sidwell, Trustee Lease</u></b>			
Ralph Job Howell Trust, by Beverly Jean Sidwell, Trustee	Antero Resources Corporation	1/8+	304A/516

04/04/2025

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<b>70: Ronald F. Billiter Lease</b> <b>Ronald F. Billiter</b>	<b>Antero Resources Corporation</b>	<b>1/8+</b>	<b>304A/507</b>
<b>69: Maranda S. Quinn Lease</b> Maranda S. Quinn	Antero Resources Corporation	1/8+	380A/923
<b>66: Maranda S. Quinn Lease</b> Maranda S. Quinn	Antero Resources Corporation	1/8+	380A/923
<b>62: Mineral Acquisition Company I, LP Lease</b> Mineral Acquisition Company I, LP	Antero Resources Corporation	1/8+	380A/395
<b>64: Master Mineral Holdings III, LP Lease</b> Master Mineral Holdings III, LP SEP Appalachia, LLC	SEP Appalachia, LLC Antero Resources Corporation	1/8+ Agreement	385A/189 405A/54
<b>62: Mineral Acquisition Company I, LP Lease</b> Mineral Acquisition Company I, LP	Antero Resources Corporation	1/8+	380A/395
<b>61: Richard B. &amp; Nancy J. Stender, h/w</b> <b>JTWROS Lease</b> Richard B. & Nancy J. Stender	Antero Resources Corporation	1/8+	371A/256
<b>59: Town of Paden City, WV Lease</b> Town of Paden City, WV	Antero Resources Corporation	1/8+	391A/854
<b>55: Town of Paden City, WV Lease</b> Town of Paden City, WV	Antero Resources Corporation	1/8+	391A/854
<b>51: Eliza Lorene Eddy Lease</b> Eliza Lorene Eddy	Antero Resources Corporation	1/8+	370A/82
<b>48: George McDonnell Lease</b> <b>George McDonnell</b>	<b>Antero Resources Corporation</b>	<b>1/8</b>	<b>Pooled Tract</b>
<b>45: Elk Range Royalties II, LP Lease</b> Elk Range Royalties II, LP	Antero Resources Corporation	1/8+	401A/307
<b>46: Ella Jane Price Lease</b> Ella Jane Price	Antero Resources Corporation	1/8+	385A/651
<b>40: David L. &amp; Mary F. Hayes, h/w, JTWROS Lease</b> David L. & Mary F. Hayes	Antero Resources Corporation	1/8+	384A/433
<b>33: Jordan G. Swanberg, et ux, JTWROS Lease</b> Jordan G. Swanberg, et ux	Antero Resources Corporation	1/8+	387A/627

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Grantor, lessor, etc.	Grantee, lessee, etc.	Royalty	Book/Page
<u>29: David A. &amp; Julie A. Vincent, JTWROS Lease</u>			
David A. & Julie A. Vincent	Antero Resources Corporation	1/8+	374A/272
<u>21: Beth Ann Shreve Lease</u>			
Beth Ann Shreve	Antero Resources Corporation	1/8+	401A/72
<u>16: Christopher A. Jackson, et ux Lease</u>			
Christopher A. Jackson, et ux	Antero Resources Corporation	1/8+	391A/851
<u>17: William C. Reed Lease</u>			
William C. Reed	Antero Resources Corporation	1/8+	385A/495
<u>12: Martin E. Moore, et ux Lease</u>			
Martin E. Moore, et ux	Antero Resources Corporation	1/8+	394A/917
<u>14: William C. &amp; Sherry L. Reed Lease</u>			
William C. & Sherry L. Reed	Antero Resources Corporation	1/8+	371A/882
<u>1: Richard E. Estep, et ux Lease</u>			
Richard E. Estep, et ux	Antero Resources Corporation	1/8+	381A/274
<u>2: James R. Paden, et ux Lease</u>			
James R. Paden, et ux	Antero Resources Corporation	1/8+	384A/569
<u>4: James R. Paden, et ux Lease</u>			
James R. Paden, et ux	Antero Resources Corporation	1/8+	384A/569
<u>3: CSX Transportation, Inc Lease</u>			
CSX Transportation, Inc	Antero Resources Corporation	1/8+	398A/904

\*Partial Assignments to Antero Resources Corporation include 100% rights to extract, produce and market the oil and gas from the Marcellus and any other formations completed with this well.

**\*Cotenancy Utilization** - Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with development of certain royalty owners' interests in this tract.

**\*\*Pooling/Unitization** – Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract

04/04/2025

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Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
<u>6: Nathan B. Anderson Lease</u>	<u>Nathan B. Anderson</u>	<u>Antero Resources Corporation</u>	<u>1/8+</u>	<u>381A/271</u>

\*Cotenancy Utilization - Antero is utilizing the Co-tenancy Modernization and Majority Protection Act to proceed with development of certain royalty owners' interests in this tract.

\*\*Pooling Utilization - Antero has filed a horizontal well unitization application with the West Virginia Oil and Gas Conservation Commission that seeks to pool certain owners in this tract

**Acknowledgement of Possible Permitting/Approval  
In Addition to the Office of Oil and Gas**

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

Well Operator: Antero Resources Corporation

By: Tim Rady

Its: Senior Vice President of Land

Expedited  
Ck # 4038289  
\$ 7,500.00  
2/6/25



March 18<sup>th</sup>, 2024

West Virginia Department of Environmental Protection  
Office of Oil and Gas  
Attn: Mr. Taylor Brewer  
601 57<sup>th</sup> Street  
Charleston, WV 25304

Antero Resources  
1615 Wynkoop Street  
Denver, CO 80202  
Office 303.357.7310  
Fax 303.357.7315

Mr. Brewer:

Antero Resources Corporation (Antero) would like to submit the following permit modification for an approved well on the Mayfield Pad. We are requesting to extend the horizontal lateral length which will change the bottom hole location of the Rigby Unit 1H well.

Attached you will find the following documents:

- REVISED Form WW-6B, which shows the revised MD and Production Casing/Cement program
- REVISED Form WW-6A1, which shows the leases we will be drilling into
- REVISED Mylar Plat, which shows the new bottom hole location

If you have any questions please feel free to contact me at (303) 357-7373.

Thank you in advance for your consideration.

Sincerely,

A handwritten signature in black ink, appearing to read "CW", written over a horizontal line.

Carly Wren  
Permitting Agent  
Antero Resources Corporation

RECEIVED  
Office Of Oil and Gas

MAR 20 2025

WV Department of  
Environmental Protection

Enclosures

04/04/2025